

1. An electrical voice transmission system comprising:
 - an electrical transmission line;
 - a microphone for picking up the voice and delivering it to the transmission line;
 - a modulator in said transmission line;
 - a speaker near the microphone for providing a voice cancellation sound,
 - a signal processor receiving input from the transmission line before the modulator and providing output to the speaker to generate a voice cancellation sound and to the modulator to subtract from the transmission line downstream thereof the electrical voice cancellation sound signal picked up before by the microphone.
2. A voice transmission system according to claim 1, wherein the speaker is one of a set of speakers near the microphone for providing voice cancellation sounds.
3. A voice transmission system according to claim 2, wherein the set of speakers near the microphone for providing voice cancellation sound is arranged in a spherical pattern about the microphone.
4. A voice transmission system according to claim 1, and a far-field sensor more remote from the microphone than the speaker for generating error signals and sending them to the signal processor.
5. A voice transmission system according to claim 4, wherein the far-field sensor is one of a set of far-field sensors more remote from the microphone than the speaker for generating error signals and sending them to the signal processor.

6. A voice transmission system according to claim 5, wherein the set of far-field sensors more remote from the microphone than the speaker for generating error signals and sending them to the signal processor is arranged in a spherical pattern about the microphone.
7. A voice transmission system according to claim 2, wherein the speaker is one of a set of speakers near the microphone for providing voice cancellation sounds, and a set of far-field sensors more remote from the microphone than the speakers for generating error signals and sending them to the signal processor.
8. A voice transmission system according to claim 2, wherein the set of speakers near the microphone for providing a voice cancellation sound is arranged in a spherical pattern about the microphone, and a set of far-field sensors more remote from the microphone than the speakers for generating error signals and sending them to the signal processor is arranged in a spherical pattern about the microphone.
9. A device for attachment to a telephone handset having a microphone comprising:
a modulator for insertion in a transmission line extending from said handset;
a speaker for mounting near the microphone for providing a voice cancellation sound,
a signal processor receiving input from the transmission line before the modulator and providing output to the speaker to generate a voice cancellation sound and to the modulator to subtract from the transmission line downstream thereof earlier electrical voice cancellation sound signal picked up by the microphone.
10. A device for attachment to a telephone handset having a microphone according to claim 9, wherein the speaker is one of a set of speakers mounted near the microphone for providing voice cancellation sounds.

11. A device for attachment to a telephone handset having a microphone according to claim 10, wherein the set of speakers mounted near the microphone for providing a voice cancellation sound is arranged in a spherical pattern about the microphone.
12. A device for attachment to a telephone handset having a microphone according to claim 9, and a far-field sensor for mounting more remote from the microphone than the speaker for generating error signals and sending them to the signal processor.
13. . A device for attachment to a telephone handset having a microphone according to claim 12, wherein the far-field sensor is one of a set of far-field sensors for mounting more remote from the microphone than the speaker for generating error signals and sending them to the signal processor
14. A device for attachment to a telephone handset having a microphone according to claim 13, wherein the set of far-field sensors for mounting more remote from the microphone than the speaker for generating error signals and sending them to the signal processor sr arranged in a spherical pattern about the microphone.
15. A voice transmission system according to claim 1, and another speaker near the microphone and connected to the signal processor for delivering voice as it was spoken into the microphone for hearing by the voice source.
16. A voice transmission system according to claim 4, and another speaker near the microphone and connected to the signal processor for delivering voice as it was spoken into the microphone for hearing by the voice source.

17. A voice transmission system according to claim 8, and another speaker near the microphone and connected to the signal processor for delivering voice as it was spoken into the microphone for hearing by the voice source.
18. In a method for transmitting voice over an electrical transmission line while canceling it spatially comprising:
- picking up the voice via a microphone and delivering it to the transmission line;
- operating a modulator in said transmission line;
- inputting from the transmission line before the modulator into a signal processor and providing outputs therefrom to a speaker near the microphone to generate a voice cancellation sound and to the modulator to subtract from the transmission line downstream from the modulator electrical voice cancellation sound signal picked up by the microphone.
19. In a method for transmitting voice over an electrical transmission line while canceling it spatially according to claim 18, and providing omnidirectional voice cancellation sound from a set of speakers of which said speaker is just one near the microphone and arranged in a spherical pattern about the microphone, and generating error signals and sending them to the signal processor from a set of far-field sensors more remote from the microphone than the speakers and arranged in a spherical pattern about the microphone.
20. In a method for transmitting voice over an electrical transmission line while canceling it spatially according to claim 19, and delivering voice as it was spoken into the microphone for hearing by the voice source from another speaker near the microphone and that is connected to the signal processor.